

PATENT / DOCKET NO.: 24061.188 /TSMC2003-1374 CUSTOMER NO. 27683

INVENTOR'S DECLARATION FOR PATENT APPLICATION

As below named inventor, I hereby declare that:

Our residence, post office address and citizenship are as stated below next to our names;

I believe I are the original, first and sole joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled

A MRAM DEVICE HAVING LOW K-INTER-METAL DIELECTRIC

the specificat	tion of which: (check one)
<u>X</u>	is attached hereto.
	was filed on under Attorney's Docket Number as Application Serial No. and was amended on (if applicable).
	that I have reviewed and understand the contents of the above identified specification, claims, as amended by any amendment referred to above.
accordance w became avail	ge the duty to disclose information which is material to the patentability of this application in with 37 CFR 1.56, including for continuation-in-part applications, material information which able between the filing date of the prior application and the national or PCT international the continuation-in-part application.
made on info the knowledg both, under 1	are that all statements made herein of our own knowledge are true and that all statements rmation and belief are believed to be true; and further that these statements were made with ge that willful false statements and the like so made are punishable by fine or imprisonment, or 8 U.S.C 1001 and that such willful false statements may jeopardize the validity of the r any patent issued thereon.
	E OF INVENTOR: Chun-Chien Lin S SIGNATURE: Chun-Chieh Lin DATED: Apr 12. 2004
RESIDENCE	·

PATENT / DOCKET NO.: 24061.188 /TSMC2003-1374 CUSTOMER NO. 27683

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Hsin-Chu, Taiwan 300, R.O.C. Citizenship: Taiwan, R.O.C.



Docket No. 24061.188 (TSMC2003-1374) Customer No. 42717

TATES PATENT AND TRADEMARK OFFICE

Applicant: Chun-Chieh Lin

Serial No.: 10/816,730

Filed:

April 2, 2004

For:

MRAM Device Having Low-K

Inter-Metal Dielectric

§

Docket Number: 24061.188

(TSMC2003-1374)

Examiner:

To Be Determined

Art Unit:

Conf. No.:

2818

1025

Commissioner of Patents P.O. Box 1450 Alexandria, VA 22313-1450

SUPPLEMENTAL SHEET TO POWER OF ATTORNEY

In accordance with 37 CFR 1.32 (c)(3) and with reference to the accompanying Power of Attorney, please recognize the following ten patent practitioners as being of record in this application.

Name	Registration Number	
Jeffrey M. Becker	35,442	
Timothy F. Bliss	50.925	
Andrew S. Ehmke	50,271	
Dave R. Hofman	55,272	
Wei Wei Jeang	33,305	
Julie M. Nickols	50,826	
J. Andrew Lowes	40,706	
David M. O'Dell	42,044	
T. Murray Smith	30,222	
Chien Wei Chou	41,672	

Respectfully submitted,

David M. O'Dell

Registration No. 42,044

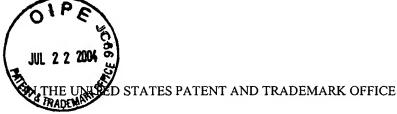
Certificate of Mailing

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as First Class Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date indicated below.

Name

Dated: 7-19-04

HAYNES AND BOONE, LLP 901 Main Street, Suite 3100 Dallas, Texas 75202-3789 Telephone: 972-739-8635 Facsimile: 214-200-0853



In re application of:

Chun-Chieh Lin

Attorney Docket No.:

24061.188

TSMC2003-1374

Serial No.: Unknown

Customer No. 27683

Filed: Herewith

Group Art Unit: Unknown

For: A MRAM DEVICE HAVING LOW K

INTER-METAL DIELECTRIC

Examiner: Unknown

Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450

POWER OF ATTORNEY FOR PATENT APPLICATION

As a representative of the Assignee, Taiwan Semiconductor Manufacturing Company, Ltd., I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

David L. McCombs (Reg. No. 32,271); Jeffrey M. Becker (Reg. No. 35,442); James R. Bell (Reg. No. 26,528); Timothy F. Bliss (Reg. No. 50,925); Randall C. Brown (Reg. No. 31,213); Randall E. Colson (Reg. No. 40,566); Michael A. Davis, Jr. (Reg. No. 35,488); Andrew S. Ehmke (Reg. No. 50,271); Priscilla Ferguson (Reg. No. 42,531); Sarah T. Harris (Reg. No. 35,891); William E. Hickman (Reg. No. 46,771); Rita M. Irani (Reg. No. 31,028); Warren B. Kice (Reg. No. 22,732); J. Andrew Lowes (Reg. No. 40,706); Todd Mattingly (Reg. No. 40,298); John Montgomery (Reg. No. 31,124); Julie Nickols (Reg. No. 50,826); Gloria Norberg (Reg. No. 36,706); David M. O'Dell (Reg. No. 42,044); Richard V. Wells (Reg. No. 53,757); and Chien Wei Chou (Reg. No. 41,672).

Please address all correspondence and telephone calls regarding this application to:

David M. O'Dell Attorney for Applicants Haynes and Boone, LLP 901 Main Street, Suite 3100 Dallas, TX 75202-3789 972-739-8635 / 214-200-0853 - Fax

The undersigned is the representative for the Assignee of the entire right, title, and interest in the patent application identified above. A copy of the assignment or other documents in the chain of title are attached.

The undersigned (whose title is supplied below) is authorized to act on behalf of the Assignee.

Date

Taiwan Semiconductor Manufacturing Company, Ltd.

Chien-We Chou

Title: Director, IP Division

Patent / Docket No.: 24061.188/TSMC2003-1374

Customer No. 27683

ASSIGNMENT

WHEREAS, I

Chun-Chieh Lin

of

Hsin-Chu, Taiwan 300, R.O.C. Taiwan, R.O.C.

has invented certain improvements in

A MRAM DEVICE HAVING LOW K INTER-METAL DIELECTRIC

for which we have executed an application for Letters Patent of the United States of America, filed April 2, 2004 and assigned application no. 10/816,730; and

WHEREAS, Taiwan Semiconductor Manufacturing Company, Ltd., ("TSMC"), No. 8, Li-Hsin Rd. 6, Science-Based Industrial Park Hsin-Chu, Taiwan 300-77, Republic of China is desirous of obtaining the entire right, title, and interest in, to and under the said invention and the said application in the United States of America and in any and all countries foreign thereto;

NOW, THEREFORE, for One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and other good and valuable consideration, I have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said TSMC, its successors, legal representatives, and assigns, the entire right, title, and interest in, to and under the said invention, and the said application, and all divisional, renewal, substitutional, and continuing applications thereof, and all Letters Patent of the United States of America which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may be filed for said invention in any country or countries foreign to the United States of America, and all extensions, renewals, and reissues thereof, and all prior patents and patent applications from which a filing priority of the above-described patent application may be obtained, including the right to collect past damages; and I hereby authorize and request the Commissioner of Patents of the United States of America, and any official of any country or countries foreign to the United States of America, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said invention to the said TSMC, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND I HEREBY covenant that I have full right to convey the entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

AND I HEREBY further covenant and agree that I will communicate to said TSMC, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, renewal, substitutional, continuing, and reissue applications, make all rightful declarations and/or oaths and generally do everything possible to aid the said TSMC, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention in all countries.

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Customer No. 27683

First Inventor Name:

Chun-Chien Lin

Residence Address:

Hsin-Chu, Taiwan 300, R.O.C.

Taiwan, R.O.C.

Dated: APY

Apr 12. 2004

Inventor Signature

Dated:

Apr 12 , 2004

Witness Signature

Witness Name: